IN THE CLAIMS

The text of all claims under examination is submitted, and the status of each is identified. This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (previously presented): An electroluminescent device, comprising a 2H-benzotriazole compound of the formula

$$\left[\begin{array}{c} X^2 \end{array}\right]_a A r^1 N \left[\begin{array}{c} N \\ N \end{array}\right]_b X^1$$
 (I)

where

a is 0, or 1,

b is 0, or 1,

with the proviso that if b is 1, then a is 1,

X¹ is a group of formula

$$-N$$
 Ar^2
 X^3
 C

if b is 1

or Y³, if b is 0,

wherein

c is 0, or 1

X² and X³ are independently of each other a group of formula

$$-\left\{\gamma^{2}\right\}_{d}\left(Ar^{3}\right) = N N - \gamma^{3}$$

wherein d is 0, or 1,

Ar¹, Ar², and Ar³ are independently of each other C₆-C₃₀aryl or a C₂-C₂₆heteroaryl, which can optionally be substituted,

Y¹ and Y² are independently of each other a divalent linking group selected from the group consisting of

, wherein

n1, n2, n3, n4, n5, n6 and n7 are 1, 2, or 3,

 E^{1} is -S-, -O-, or -NR^{25'}-, wherein R^{25'} is C₁-C₂₄alkyl, or C₆-C₁₀aryl,

 R^6 and R^7 are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_2 0heteroaryl, C_2 - C_2 0heteroaryl which is substituted by E, C_2 - C_2 4alkoxy, C_1 - C_2 4alkoxy which is substituted by E and/or interrupted by D, C_7 - C_2 5aralkyl, C_7 C25aralkyl, which is substituted by E, C_7 - C_2 5aralkoxy, C_7 - C_2 5aralkoxy which is substituted by E, or -CO- R^{28} .

 R^8 is C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, or C_7 - C_{25} aralkyl,

 R^9 and R^{10} are independently of each other C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkoxy which is substituted by E and/or interrupted by D, or C_7 - C_{25} aralkyl, or

R⁹ and R¹⁰ form a five- or six-membered ring,

 R^{14} and R^{15} are independently of each other H, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, or C_2 - C_{20} heteroaryl which is substituted by E,

D is -CO-, -COO-, -S-, -SO-, -SO₂-, -O-, -NR²⁵-, -SiR³⁰R³¹-, -POR³²-, -CR²³=CR²⁴-, or -C \equiv C-, and E is -OR²⁹, -SR²⁹, -NR²⁵R²⁶, -COR²⁸, -COR²⁷, -CONR²⁵R²⁶, -CN, -OCOOR²⁷, or halogen, wherein

 R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H, C_6 - C_{18} aryl, C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl which is interrupted by -O-, or

R²⁵ and R²⁶ together form a five or six membered ring,

 R^{27} and R^{28} are independently of each other H, C_6 - C_{18} aryl, C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl, or C_1 - C_2 4alkyl, which is interrupted by $-O_7$.

 R^{29} is H, C_6 - C_{18} aryl, C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl which is interrupted by -O-,

 R^{30} and R^{31} are independently of each other C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, and

 R^{32} is C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl,

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and

Y³ and Y^{3'} are independently of each other a group of formula

. wherein

 R^{41} , R^{42} , R^{43} , R^{44} , R^{45} , R^{46} , R^{47} , R^{48} , R^{49} , R^{50} , R^{51} , R^{52} , R^{53} , R^{54} , R^{55} , R^{56} , R^{57} , R^{58} , R^{69} , R^{60} , R^{61} , R^{62} , R^{63} , R^{64} , R^{65} , R^{66} , R^{67} , R^{70} , R^{71} , R^{72} , R^{73} , R^{74} , R^{75} , R^{76} , R^{77} , R^{80} , R^{81} , R^{82} , R^{83} , R^{84} , R^{85} , R^{86} , and R^{87} are independently of each other H, C_1 - C_2 4alkyl, which is optionally substituted by E and/or interrupted by D, C_1 - C_2 4alkenyl, which is optionally substituted by E, C_5 - C_{12} cycloalkoxy, which is optionally substituted by E, C_6 - C_{18} aryl, which is optionally substituted by E, C_1 - C_2 4alkoxy, which is optionally substituted by E and/or interrupted by D, C_6 - C_{18} aryloxy, which is optionally substituted by E and/or interrupted by D, C_1 - C_2 4alkylselenium, which is optionally substituted by E and/or interrupted by D, C_1 - C_2 4alkylselenium, which is optionally substituted by E and/or interrupted by D, C_1 - C_2 4alkylselenium, which is optionally substituted by E and/or interrupted by D, C_2 - C_2 6heteroaryl which is substituted by E, or C_6 - C_{18} 6aralkyl, which is optionally substituted by E, or two groups R^{41} , R^{42} , R^{43} , R^{44} , R^{45} , R^{46} , R^{47} , R^{48} , R^{49} , R^{50} , R^{51} , R^{52} , R^{53} , R^{54} , R^{55} , R^{56} , R^{57} , R^{58} , R^{59} , R^{60} , R^{61} , R^{62} , R^{63} , R^{64} , R^{65} , R^{66} , R^{67} , R^{70} , R^{71} , R^{72} , R^{73} , R^{74} , R^{75} , R^{76} , R^{77} , R^{80} , R^{81} , R^{82} , R^{83} , R^{84} ,

R⁸⁵, R⁸⁶, and R⁸⁷, which are neighbouring to each other, are a group

4, -, 6, , .

or A^{91} A^{97} , wherein A^{90} , A^{91} , A^{92} , A^{93} , A^{94} , A^{95} , A^{96} and A^{97} are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or $-NR^{25}$ -, C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_2 4alkoxy which is substituted by E and/or interrupted by D, C_7 - C_2 5aralkyl, C_7 - C_2 5aralkyl, which is substituted by E, C_7 - C_2 5aralkoxy, C_7 - C_2 5aralkoxy which is substituted by E, or -CO- R^{28} ,

 R^{68} , R^{69} , R^{78} , R^{79} , R^{88} and R^{89} are independently of each other C_1 - C_{18} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkoxy which is substituted by E and/or interrupted by D, or C_7 - C_{25} aralkyl, or R^{68} and R^{69} , R^{78} and R^{79} , and/or R^{88} and R^{89} form a five- or six-membered ring, or

 R^{68} and R^{70} , R^{69} and R^{73} , R^{77} and R^{78} and/or R^{84} and R^{89} are a group

D is -CO-; -COO-; -S-; -SO-; -SO₂-; -O-; -NR²⁵-; -SiR³⁰R³¹-; -POR³²-; -CR²³=CR²⁴-; or -C \equiv C-; and E is -OR²⁹; -SR²⁹; -NR²⁵R²⁶; -COR²⁸; -COR²⁷; -CONR²⁵R²⁶; -CN; -OCOOR²⁷; or halogen; wherein

 R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkoxy; C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-; or

 $\ensuremath{\mathsf{R}}^{25}$ and $\ensuremath{\mathsf{R}}^{26}$ together form a five or six membered ring,

 R^{27} and R^{28} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl; or C_1 - C_2 4alkyl which is interrupted by -O-,

 R^{29} is H; C_6 - C_{18} aryl; C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl which is interrupted by $-O_7$,

 R^{30} and R^{31} are independently of each other C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, and

 R^{32} is C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl.

2. (previously presented): An electroluminescent device according to claim 1, comprising a 2H-benzotriazole compound of the formula

$$Ar^{1} = N - Y^{3}$$

$$(II),$$

$$Y^{3} - N - N - Y^{1} = N - Y^{3}$$

$$Ar^{2} = N - Y^{2} - N - Y^{3}$$

$$(IV),$$

$$Ar^{1} = N - Y^{1} - N - Y^{1} - N - Y^{2}$$

$$(V), \text{ and/or}$$

$$Y^{3} - N - N - Y^{2} - N - Y^{2} - N - Y^{3} - N - Y^{3}$$

$$(V), \text{ and/or}$$

$$Y^{3} - N - N - Y^{2} - N - N - Y^{2} - N - Y^{3} -$$

d, Ar^1 , Ar^2 , Ar^3 , Y^3 , Y^1 and Y^2 are defined as in claim 1 and Ar^4 stand for C_6 - C_{30} aryl or a C_2 - C_{26} heteroaryl, which can optionally be substituted.

3. (previously presented): An electroluminescent device according to claim 2, wherein

$$Ar^1$$
 N and Ar^2 N N

in formula II are independently of each other a group of formula

wherein

A²¹, A²², A²³, A²⁴, A¹¹, A¹², A¹³, A¹⁴, A¹⁵, A¹⁶, A¹⁷ and A¹⁸ are independently of each other H, halogen, hydroxy, C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₁-C₂₄perfluoroalkyl, C₅-C₁₂cycloalkyl, C₅-C₁₂cycloalkyl which is substituted by E and/or interrupted

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by S-, -O-, or -NR²⁵-, -NR²⁵R²⁶, C_1 - C_{24} alkylthio, -PR³² R³², C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, C_7 - C_{25} aralkoxy, which is substituted by E, C_7 - C_{25} aralkoxy, C_7 - C_{25} aralkoxy which is substituted by E, or -CO-R²⁸, or

$$A^{31}$$
 A^{32}
 A^{33}
 A^{34}
 A^{33}
 A^{34}
 A^{35}
 A^{35}
 A^{36}
 A^{35}

 A^{22} and A^{23} or A^{11} and A^{23} are a group

two groups A¹¹, A¹², A¹³, A¹⁴, A¹⁵, A¹⁶, A¹⁷ and A¹⁸, which are neighbouring to each other, are a

$$A^{31}$$
 A^{32}
 A^{33}
 A^{34}
 A^{33}
 A^{34}
 A^{35}
 A^{34}
 A^{35}

, wherein A³¹, A³², A³³, A³⁴, A³⁵, A³⁶ and A³⁷ are

4.

independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_2 0heteroaryl, C_2 - C_2 0heteroaryl which is substituted by E, C_2 - C_2 4alkenyl, C_2 - C_2 4alkynyl, C_1 - C_2 4alkoxy, C_1 - C_2 4alkoxy which is substituted by E and/or interrupted by D, C_7 - C_2 5aralkyl, C_7 - C_2 5aralkyl, which is substituted by E, C_7 - C_2 5aralkoxy, C_7 - C_2 5aralkoxy which is substituted by E, or -CO- R^{28} , D is -CO-; -COO-; -S-; -SO-; -SO₂-; -O-; -NR²⁵-; -SiR³⁰R³¹-; -POR³²-; -CR²³=CR²⁴-; or -C≡C-; and E is -OR²⁹; -SR²⁹; -NR²⁵R²⁶; -COR²⁸; -COR²⁸; -COR²⁸; -COR²⁶; -CN; -OCOOR²⁷; or halogen; wherein

 R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkoxy; C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-; or

R²⁵ and R²⁶ together form a five or six membered ring,

 R^{27} and R^{28} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkoxy; C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-,

 R^{29} is H; C_6 - C_{18} aryl; C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-,

group

 R^{30} and R^{31} are independently of each other C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, and

 R^{32} is C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl.

4. (previously presented): An electroluminescent device according to claim 2, wherein

$$-N$$
 Ar^3 and Ar^4 N N

in formula IV are independently of each other a group

of formula

$$A^{41} = A^{41} = A$$

wherein

A⁴¹, A⁴², A⁴³, A⁴⁴, A⁵¹, A⁵², A⁵³, A⁵⁴, A⁵⁵, A⁵⁶, A⁵⁷, A⁵⁸, A⁵⁹ and A⁶⁰ are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, NR²⁵R²⁶, C_1 - C_2 4alkylthio, -PR³²R³², C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_2 4aryl, C_6 - C_2 4aryl which is substituted by E, C_2 - C_2 0heteroaryl, C_2 - C_2 0heteroaryl which is substituted by E, C_2 - C_2 4alkoxy, C_1 - C_2 4alkoxy which is substituted by E and/or interrupted by D, C_7 - C_2 5aralkyl, C_7 - C_2 5aralkyl, which is substituted by E, C_7 - C_2 5aralkoxy, C_7 - C_2 5aralkoxy which is substituted by E, or -CO- R^{28} , or

$$A^{61}$$
 A^{62}
 A^{63}
 A^{63}
 A^{69}
 A^{68}

 A^{42} and A^{43} or A^{42} and A^{51} are a group

two groups A⁵¹, A⁵², A⁵³, A⁵⁴, A⁵⁵, A⁵⁶, A⁵⁷, A⁵⁸, A⁵⁹ and A⁶⁰, which are neighbouring to each.

$$A^{61}$$
 A^{62}
 A^{63}
 A^{65}
 A^{66}
 A^{67}
 A^{68}

other, are a group

, wherein A⁶¹, A⁶², A⁶³, A⁶⁴, A⁶⁵, A⁶⁶, A⁶⁷, A⁶⁸,

 A^{69} and A^{70} are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_2 0heteroaryl, C_2 - C_2 0heteroaryl which is substituted by E, C_2 - C_2 4alkoxy, C_1 - C_2 4alkoxy which is substituted by E and/or interrupted by D, C_7 - C_2 5aralkyl, C_7 - C_2 5aralkyl, which is substituted by E, C_7 - C_2 5aralkoxy which is substituted by E, or -CO- R^{28} ,

D is -CO-; -COO-; -S-; -SO-; -SO₂-; -O-; -NR²⁵-; -SiR³⁰R³¹-; -POR³²-; -CR²³=CR²⁴-; or -C=C-; and E is -OR²⁹; -SR²⁹; -NR²⁵R²⁶; -COR²⁸; -COOR²⁷; -CONR²⁵R²⁶; -CN; -OCOOR²⁷; or halogen; wherein

 R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-; or

R²⁵ and R²⁶ together form a five or six membered ring,

 R^{27} and R^{28} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl; or C_1 - C_2 4alkyl which is interrupted by -O-,

 R^{29} is H; C_6 - C_{18} aryl; C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-,

 R^{30} and R^{31} are independently of each other C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, and

 R^{32} is C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, wherein one of the substituents A^{41} , A^{42} , A^{43} , A^{44} , A^{51} , A^{52} , A^{53} , A^{54} , A^{55} , A^{56} , A^{57} , A^{58} , A^{59} , A^{60} , A^{61} , A^{62} , A^{63} , A^{64} , A^{65} , A^{66} , A^{67} , A^{68} , A^{69} and A^{70} represents a single bond.

5-6. (canceled)

7. (previously presented): An electroluminescent device according to claim 2, wherein the 2H-benzotriazole compound is a compound of formula

$$A^{21} \xrightarrow{A^{21}} \xrightarrow{A^{21}} \xrightarrow{A^{21}} \xrightarrow{A^{16}} \xrightarrow{A^{18}} \xrightarrow{A^{15}} \xrightarrow{A^{16}} \xrightarrow{A^{17}} \xrightarrow{A^{18}} \xrightarrow{A^{23}} \xrightarrow{A^{14}} \xrightarrow{A^{14}} \xrightarrow{A^{14}} \xrightarrow{A^{15}} \xrightarrow{A^{14}} \xrightarrow{A^{15}} \xrightarrow{A^{15}} \xrightarrow{A^{14}} \xrightarrow{A^{15}} \xrightarrow{A^{15}} \xrightarrow{A^{14}} \xrightarrow{A^{15}} \xrightarrow{A^{15}} \xrightarrow{A^{15}} \xrightarrow{A^{14}} \xrightarrow{A^{15}} \xrightarrow{A^{15$$

 A^{21} , A^{22} , A^{23} and A^{24} are independently of each other hydrogen, halogen, C_1 - C_{24} alkyl, C_1 -C₂₄perfluoroalkyl, C₆-C₁₈aryl, -NR²⁵R²⁶, -CONR²⁵R²⁶, or -COOR²⁷, or C₂-C₁₀heteroaryl, or

A²² and A²³ or A¹¹ and A²³ are a group of formula

(IId), wherein

 A^{11} , A^{12} , A^{13} , A^{14} , A^{15} , A^{16} , A^{17} , and A^{18} are independently of each other H, CN, C_1 - C_{24} alkyl, C_1 - C_{24} alkoxy, C_{1} - C_{24} alkylthio, C_{6} - C_{18} aryl, -NR 25 R 26 , -CONR 25 R 26 , or -COOR 27 , or C_{2} - C_{10} heteroaryl, wherein

R²⁵ and R²⁶ are independently of each other H, C₆-C₁₈aryl, C₇-C₁₈aralkyl, or C₁-C₂₄alkyl, R²⁷ is C₁-C₂₄alkyl, and

Y³ is a group of formula

$$R^{70}$$
 E^{1}
 R^{73}
 R^{74}
 R^{72}
 R^{76}
 R^{75}
 R^{75}

R⁴¹ is hydrogen, C₁-C₂₄alkoxy, or OC₇-C₁₈aralkyl, R⁴² is hydrogen, or C₁-C₂₄alkyl,

R⁴³ is hydrogen, halogen, -CONR²⁵R²⁶, -COOR²⁷,

, wherein

 E^1 is -S-, -O-, or -NR^{25'}-, wherein R^{25'} is C₁-C₂₄alkyl, or C₆-C₁₀aryl,

 R^{110} is H, CN, C_1 - C_{24} alkyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkylthio, -NR²⁵R²⁶, -CONR²⁵R²⁶, or -COOR²⁷, or

oup of formula , or

R⁴² and R⁴³ are a group of formula

R⁴⁴ is hydrogen, or C₁-C₂₄alkyl,

R⁴⁵ is hydrogen, or C₁-C₂₄alkyl,

 $A^{11'}$, $A^{12'}$, $A^{13'}$, and $A^{14'}$ are independently of each other H, CN, C_1 - C_{24} alkyl, C_1 - C_{24} alkylthio, -NR²⁵R²⁶, -CONR²⁵R²⁶, or -COOR²⁷,

 R^{68} and R^{69} are independently of each other C_1 - C_{24} alkyl, which can be interrupted by one or two oxygen atoms,

 R^{70} , R^{71} , R^{72} , R^{73} , R^{74} , R^{75} , R^{76} , R^{90} , R^{91} , R^{92} , and R^{93} are independently of each other H, CN, C_{1} - C_{24} alkyl, C_{6} - C_{10} aryl, C_{1} - C_{24} alkoxy, C_{1} - C_{24} alkylthio, -NR 25 R 26 , -CONR 25 R 26 , or -COOR 27 ,

 R^{25} and R^{26} are independently of each other H, C_6 - C_{18} aryl, C_7 - C_{18} aralkyl, or C_1 - C_{24} alkyl, and R^{27} is C_1 - C_{24} alkyl.

8. (cancelled).

9. (previously presented): An electroluminescent device according to claim **2**, wherein the 2H-benzotriazole compound is a compound of formula

$$Y^3-N$$
 N
 Y^2
 Y^3
 Y^3
 Y^4
 Y^3
 Y^4
 Y^4
 Y^4
 Y^4
 Y^4

(VIa), wherein d is 0, or 1,

$$R^9$$
 R^{10} , or R^{41} , wherein

 R^9 and R^{10} are independently of each other C_1 - C_{24} alkyl, which can be interrupted by one or two oxygen atoms,

 R^{25} is H, C_6 - C_{18} aryl, C_7 - C_{18} aralkyl, or C_1 - C_{24} alkyl, R^{41} is C_1 - C_{24} alkoxy, or C_7 - C_{15} phenylalkoxy, and R^{44} is is H, or C_1 - C_{24} alkyl.

10. (previously presented): A 2H-benzotriazole compound of the formula

$$\left[\begin{array}{c} X^2 \end{array}\right]_a \stackrel{N}{=} N \stackrel{N}{=} N \left[Y^{\frac{1}{3}}\right]_b X^1$$
 (I),

a is 0, or 1,

b is 0, or 1,

with the proviso that if b is 1, then a is 1,

X1 is a group of formula

$$-N$$
 Ar^2
 X^3
 C
 Ar^3
 C

or Y^3 , if b is 0,

wherein

c is 0, or 1

X² and X³ are independently of each other a group of formula

$$-\left\{\gamma^2\right\}_0$$
 Ar^3 $N-Y^3$, wherein d is 0, or 1,

 Ar^{1} , Ar^{2} , and Ar^{3} are independently of each other C_{6} - C_{30} aryl or a C_{2} - C_{26} heteroaryl, which can optionally be substituted,

Y¹ and Y² are independently of each other a divalent linking group selected from the group consisting of

n1, n2, n3, n4, n5, n6 and n7 are 1, 2, or 3,

 E^{1} is -S-, -O-, or -NR^{25'}-, wherein R^{25'} is C₁-C₂₄alkyl, or C₆-C₁₀aryl,

 R^6 and R^7 are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, C_7 - C_{25} aralkyl, which is substituted by E, C_7 - C_{25} aralkoxy, C_7 - C_{25} aralkoxy which is substituted by E, or -CO- R^{28} .

 R^8 is C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, or C_7 - C_{25} aralkyl,

 R^9 and R^{10} are independently of each other C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkoxy which is substituted by E and/or interrupted by D, or C_7 - C_{25} aralkyl, or

 $\ensuremath{\mbox{R}^{9}}$ and $\ensuremath{\mbox{R}^{10}}$ form a five- or six-membered ring,

 R^{14} and R^{15} are independently of each other H, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, or C_2 - C_{20} heteroaryl which is substituted by E,

D is -CO-, -COO-, -S-, -SO-, -SO₂-, -O-, -NR²⁵-, -SiR³⁰R³¹-, -POR³²-, -CR²³=CR²⁴-, or -C \equiv C-, and E is -OR²⁹, -SR²⁹, -NR²⁵R²⁶, -COR²⁸, -COR²⁷, -CONR²⁵R²⁶, -CN, -OCOOR²⁷, or halogen, wherein

 R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H, C_6 - C_{18} aryl, C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl which is interrupted by $-O_7$ or

R²⁵ and R²⁶ together form a five or six membered ring,

 R^{27} and R^{28} are independently of each other H, C_6 - C_{18} aryl, C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl, or C_1 - C_2 4alkyl, or C_1 4alkyl, or

 R^{29} is H, C_6 - C_{18} aryl, C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl which is interrupted by -O-,

 R^{30} and R^{31} are independently of each other C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, and

 R^{32} is C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl,

and

$$R^{41}$$
 R^{42} R^{43} R^{45} R^{44}

Y³ and Y^{3'} are independently of each other a group of formula

. wherein

 R^{41} , R^{42} , R^{43} , R^{44} , R^{45} , R^{46} , R^{47} , R^{48} , R^{49} , R^{50} , R^{51} , R^{52} , R^{53} , R^{54} , R^{55} , R^{56} , R^{57} , R^{58} , R^{59} , R^{60} , R^{61} , R^{62} , R^{63} , R^{64} , R^{65} , R^{66} , R^{67} , R^{70} , R^{71} , R^{72} , R^{73} , R^{74} , R^{75} , R^{76} , R^{77} , R^{80} , R^{81} , R^{82} , R^{83} , R^{84} , R^{85} , R^{86} , and R^{87} are independently of each other H, C_1 - C_2 4alkyl, which is optionally substituted by E and/or interrupted by D, C_1 - C_2 4alkenyl, which is optionally substituted by E, C_5 - C_{12} cycloalkoxy, which is optionally substituted by E, C_6 - C_{18} aryl, which is optionally substituted by E, C_1 - C_2 4alkoxy, which is optionally substituted by E and/or interrupted by D, C_6 - C_{18} aryloxy, which is optionally substituted by E and/or interrupted by D, C_1 - C_2 4alkylselenium, which is optionally substituted by E and/or interrupted by D, C_1 - C_2 4alkylselenium, which is optionally substituted by E and/or interrupted by D, C_1 - C_2 4alkylselenium, which is optionally substituted by E and/or interrupted by D, C_2 - C_2 4alkyltellurium, which is optionally substituted by E and/or interrupted by D, C_2 - C_2 4alkyltellurium, which is optionally substituted by E and/or interrupted by D, C_2 - C_2 4alkyltellurium, which is optionally substituted by E, or C_6 - C_{18} 4aralkyl, which is optionally substituted by E, or C_6 - C_{18} 4aralkyl, which is optionally substituted by E, or C_6 - C_{18} 4aralkyl, which is optionally substituted by E, or C_6 - C_{18} 4aralkyl, which is optionally substituted by E, or

 $\downarrow I'$

two groups R^{41} , R^{42} , R^{43} , R^{44} , R^{45} , R^{46} , R^{47} , R^{48} , R^{49} , R^{50} , R^{51} , R^{52} , R^{53} , R^{54} , R^{55} , R^{56} , R^{57} , R^{58} , R^{59} , R^{60} , R^{61} , R^{62} , R^{63} , R^{64} , R^{65} , R^{66} , R^{67} , R^{70} , R^{71} , R^{72} , R^{73} , R^{74} , R^{75} , R^{76} , R^{77} , R^{80} , R^{81} , R^{82} , R^{83} , R^{84} ,

R85, R86, and R87, which are neighbouring to each other, are a group

or A^{91} A^{97} , wherein A^{90} , A^{91} , A^{92} , A^{93} , A^{94} , A^{95} , A^{96} and A^{97} are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl which is substituted by E, C_2 - C_2 0heteroaryl, C_2 - C_2 0heteroaryl which is substituted by E, C_2 - C_2 4alkoxy which is substituted by E, C_1 - C_2 4alkoxy which is substituted by E and/or interrupted by D, C_1 - C_2 5aralkyl, C_1 - C_2 5aralkyl, which is substituted by E, C_2 - C_2 5aralkoxy which is substituted by E, or -CO- C_2 8,

 R^{68} , R^{69} , R^{78} , R^{79} , R^{88} and R^{89} are independently of each other C_1 - C_{18} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_1 - C_{24} alkoxy which is substituted by E and/or interrupted by D, or C_7 - C_{25} aralkyl, or R^{68} and R^{69} , R^{78} and R^{79} , and/or R^{88} and R^{89} form a five- or six-membered ring, or

 R^{68} and R^{70} , R^{69} and R^{73} , R^{77} and R^{78} and/or R^{84} and R^{89} are a group

D is -CO-; -COO-; -S-; -SO-; -SO₂-; -O-; -NR²⁵-; -SiR³⁰R³¹-; -POR³²-; -CR²³=CR²⁴-; or -C \equiv C-; and E is -OR²⁹; -SR²⁹; -NR²⁵R²⁶; -COR²⁸; -COR²⁷; -CONR²⁵R²⁶; -CN; -OCOOR²⁷; or halogen; wherein

 R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkoxy; C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-; or

R²⁵ and R²⁶ together form a five or six membered ring,

 R^{27} and R^{28} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl; or C_1 - C_2 4alkyl which is interrupted by $-O_7$.

 R^{29} is H; C_6 - C_{18} aryl; C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkyl which is interrupted by -O-,

 R^{30} and R^{31} are independently of each other C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, and

 R^{32} is C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl.